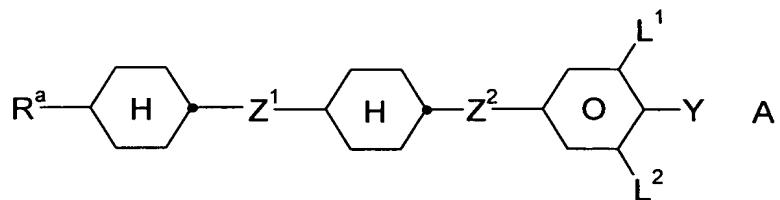


The listing of claims will replace all prior versions, and listings, of claims in the application:

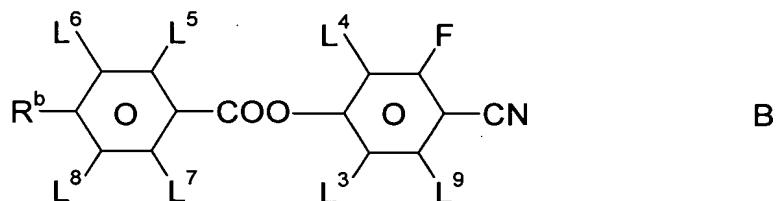
**Listing of Claims:**

1. (Currently Amended) A liquid-crystalline medium comprising one or more compounds of formula A



and

at least one compound of formula B



in which

$R^a$  is H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, replaced by -O-, -S-,  , - $CH=CH$ -, - $C\equiv C$ -, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

$R^b$  is H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, replaced by -O-, -S-,  , - $C\equiv C$ -, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a

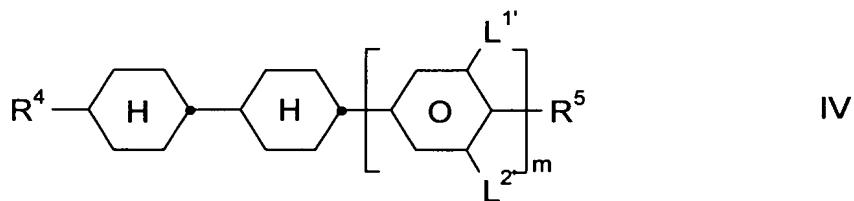
$Z^1$  and  $Z^2$  way that O atoms are not linked directly to one another,  
 are each, independently of one another,  $-(CH_2)_4-$ ,  $-CF_2O-$ ,  $-COO-$ ,  
 $-OCF_2-$ ,  $-OCH_2-$ ,  $-CH_2O-$ ,  $-CH_2-$ ,  $-(CH_2)_3-$  or a single bond, wherein at  
 least one of  $Z^1$  and  $Z^2$  is  $-OCF_2-$  or  $-CF_2O-$ ,

$L^1$  to  $L^9$  are each, independently of one another, H or F, and

Y is F, Cl, SF<sub>5</sub>, NCS, OCN, CN, SCN, or a monohalogenated or  
 polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each  
 having up to 5 carbon atoms;

provided that the medium comprises:

at least one compound of formula IV



in which

$m$  is 1,

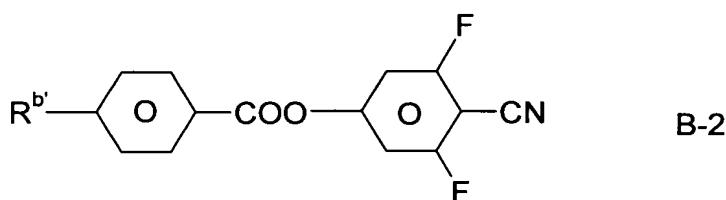
$R^4$  is an alkenyl group having 2 to 7 carbon atoms,

$R^5$  is as defined for  $R^a$  or is F, Cl, CF<sub>3</sub> or OCF<sub>3</sub>,

$L^1'$  is F and

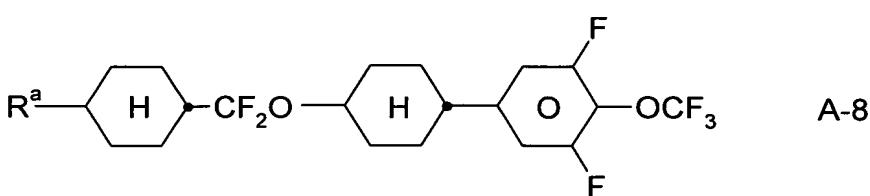
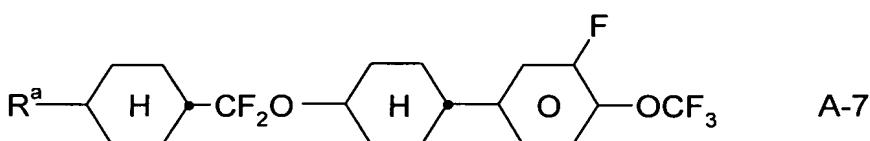
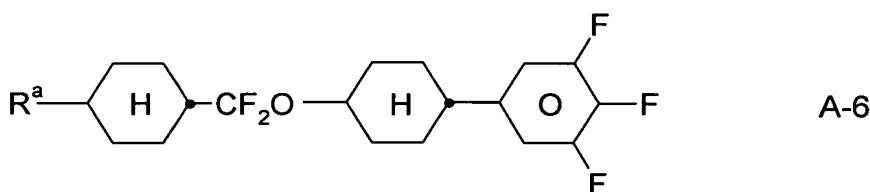
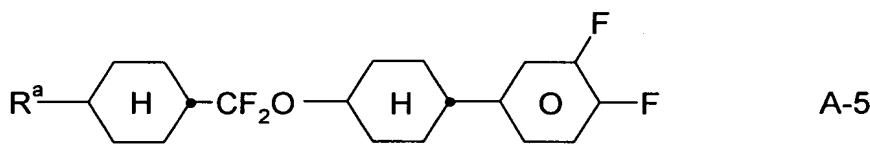
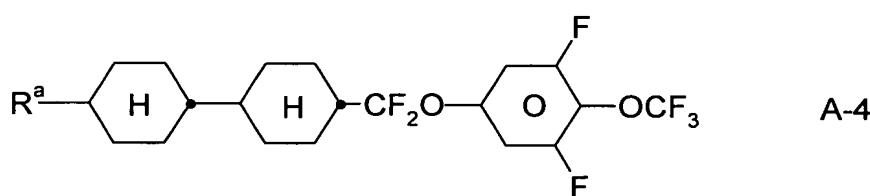
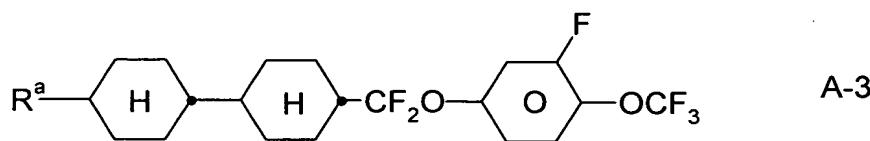
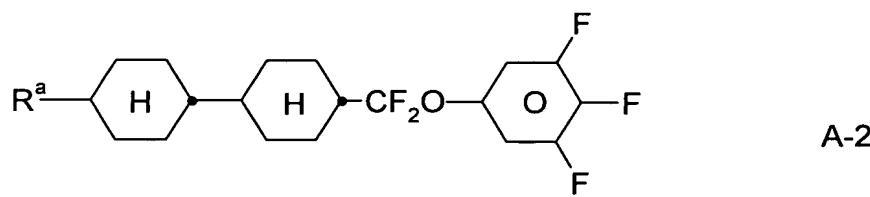
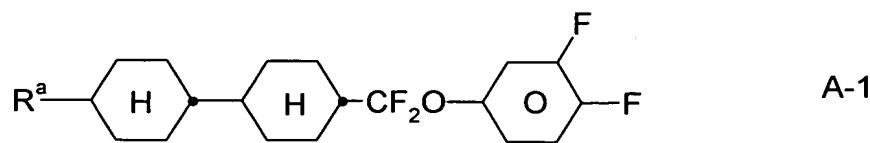
$L^2'$  is H or F,

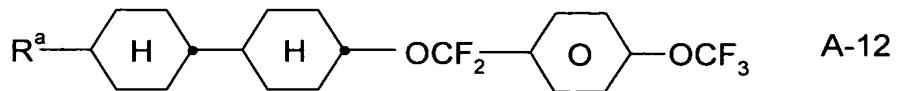
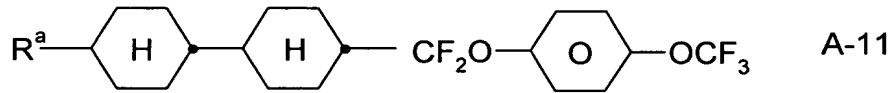
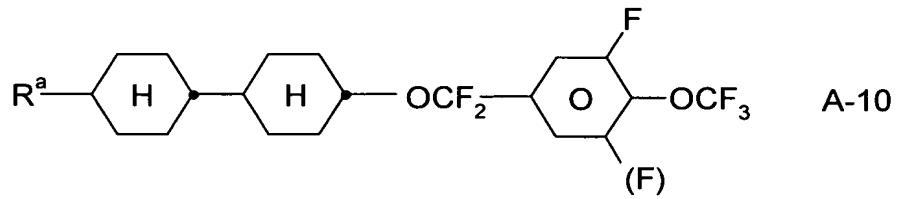
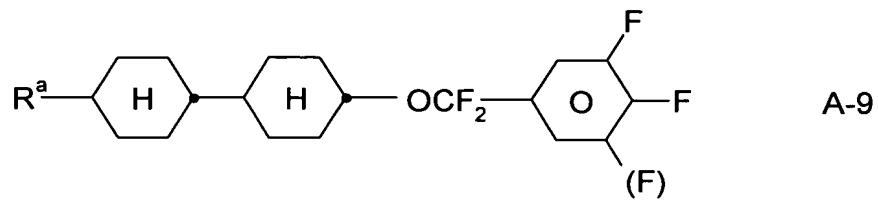
or that at least one compound of formula B is of the following formula B-2;



in which  $R^{b'}$  is a C<sub>2-12</sub> alkenyl radical [ ].

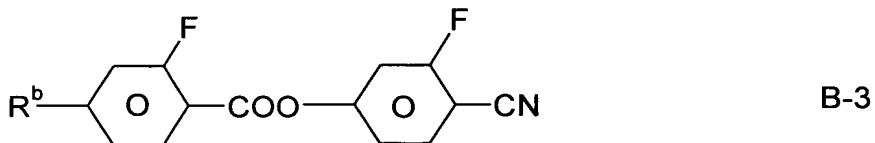
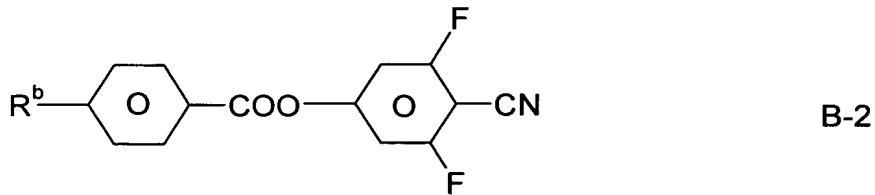
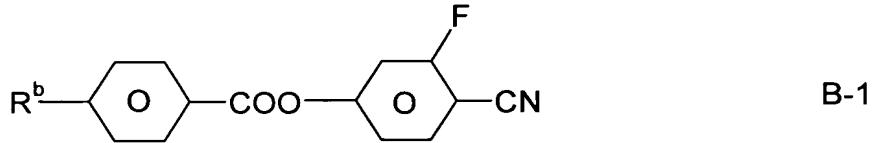
2. (Original) A liquid-crystalline medium according to Claim 1,  
 comprising a compound of formulae A-1 to A-12

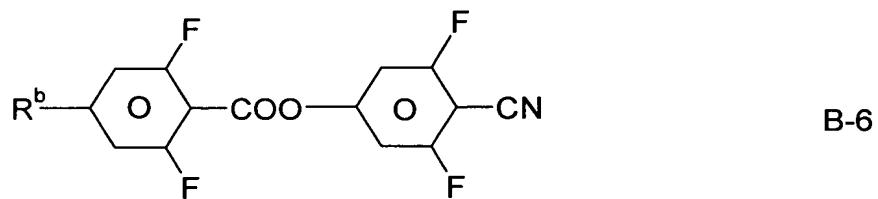
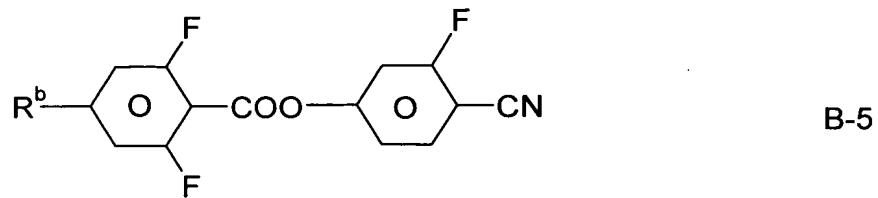
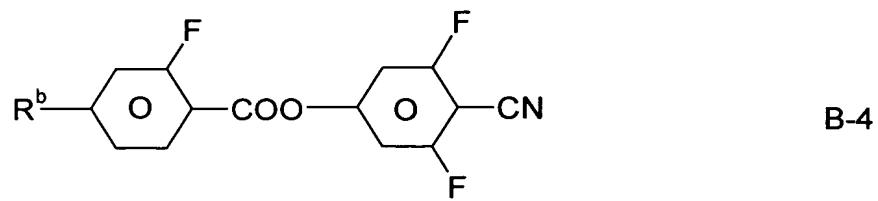




in which  $\text{R}^a$  is as defined in Claim 1.

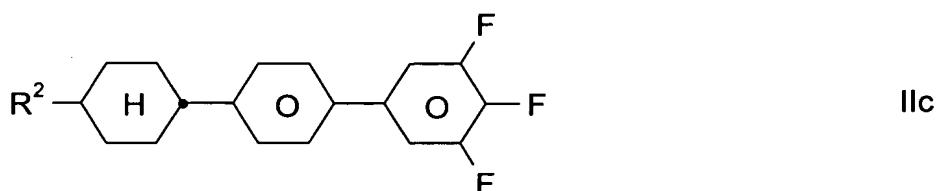
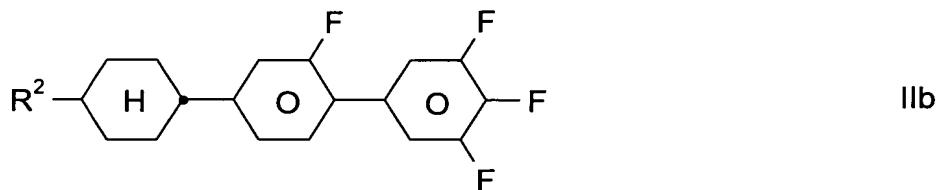
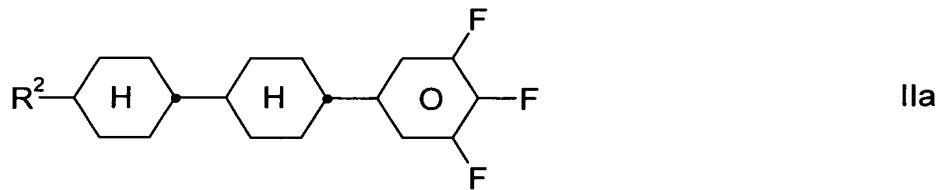
3. (Original) A liquid-crystalline medium according to Claim 1, comprising a compound of formulae B-1 to B-6

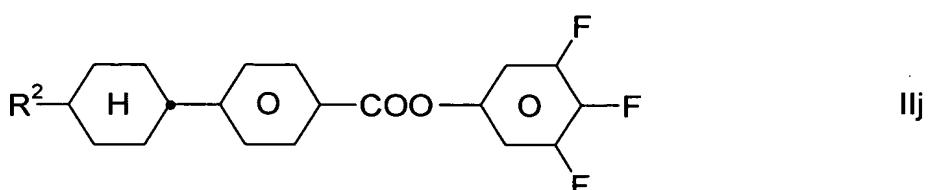
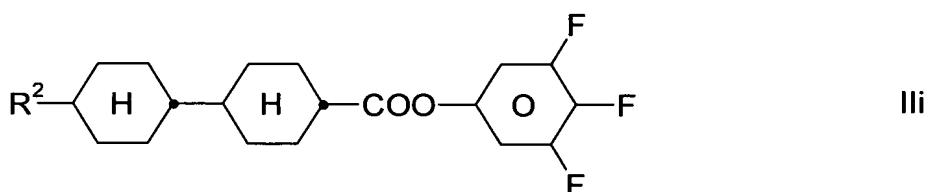
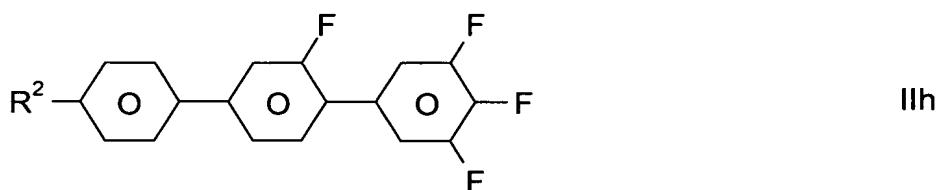
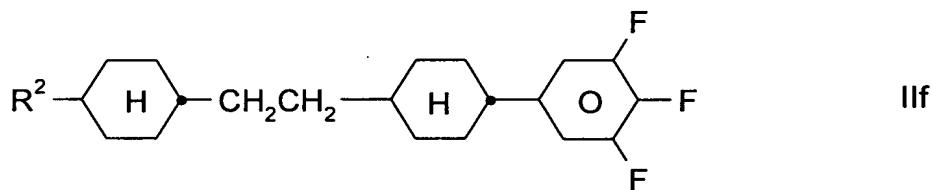
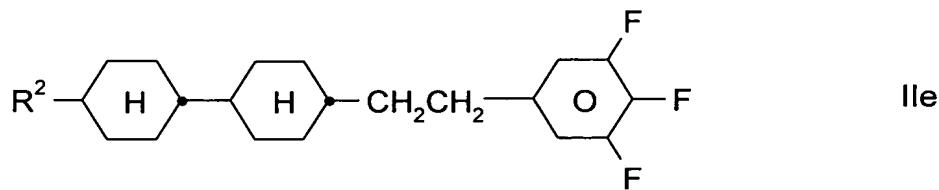
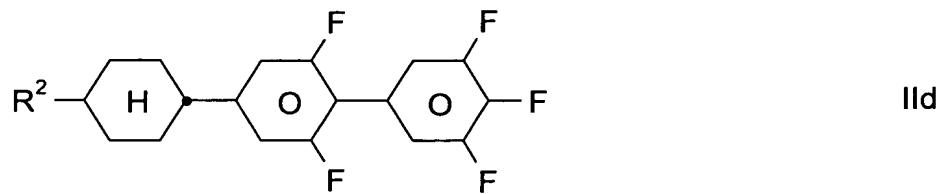




in which  $R^b$  is as defined in Claim 1.

4. (Original) A liquid-crystalline medium according to Claim 1, further comprising a compound of formulae IIa to IIj



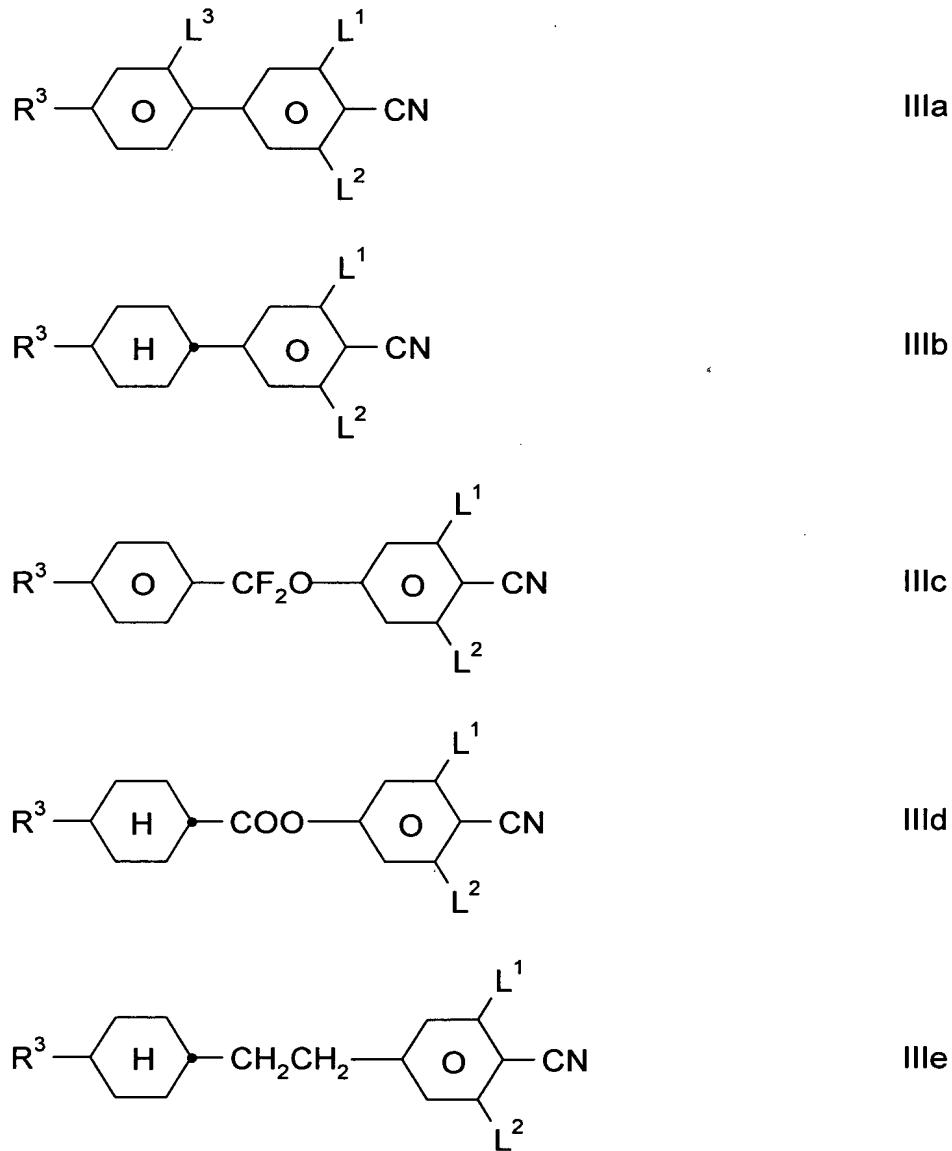


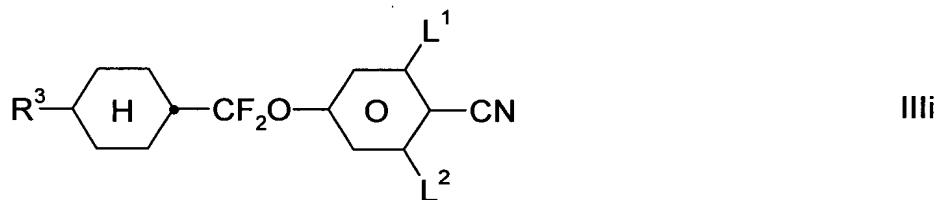
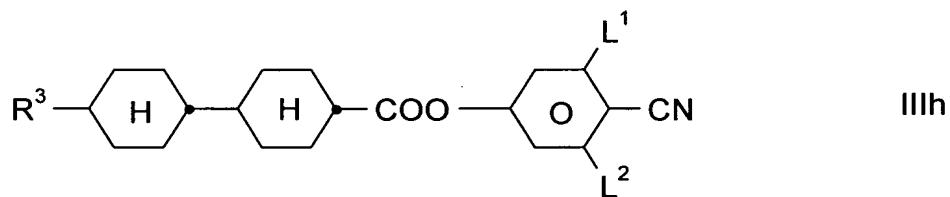
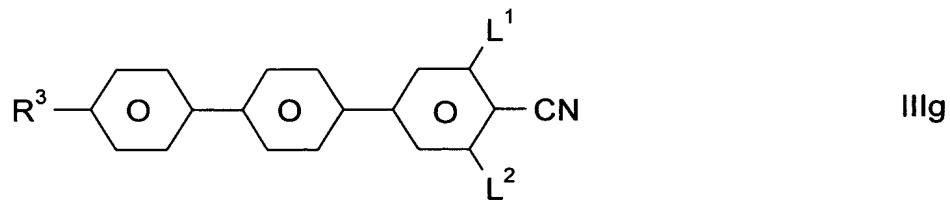
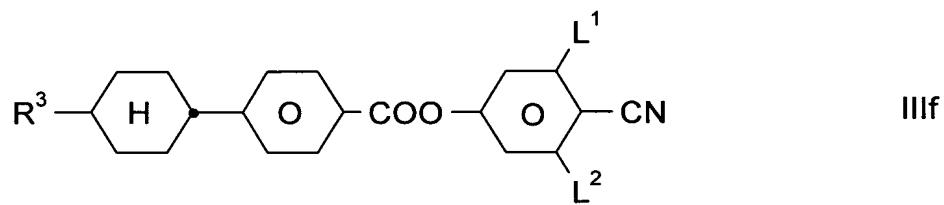
in which

$R^2$  is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in

which one or more  $\text{CH}_2$  groups are optionally, independently of one another, replaced by -O-, -S-,  , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another.

5. (Original) A liquid-crystalline medium according to Claim 1, further comprising a cyano compound of formulae IIIa to IIIi





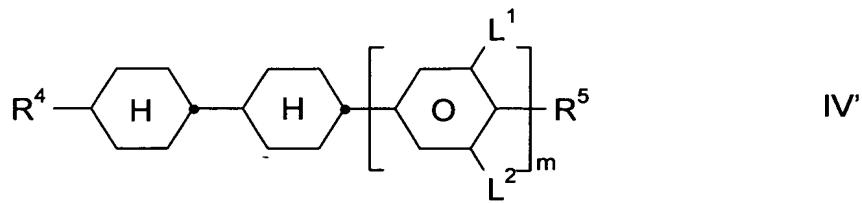
in which

$R^3$  is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, are replaced by -O-, -S-,  $\text{--} \text{C}=\text{C} \text{--}$ , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another, and

$L^1$ ,  $L^2$

and  $L^3$  are each, independently of one another, H or F.

6. (Previously Presented) A liquid-crystalline medium according to Claim 1, further comprising a compound of formula IV'



in which

$m$  is 0 or 1,

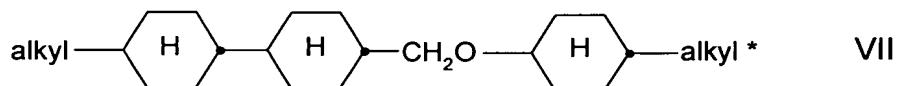
$R^4$  is an alkenyl group having 2 to 7 carbon atoms,

$R^5$  is defined as  $R^a$  in claim 1, or, when  $m$  is 1, is alternatively F, Cl,  $CF_3$  or  $OCF_3$ , and

$L^1$  and  $L^2$  are each, independently of one another, H or F,

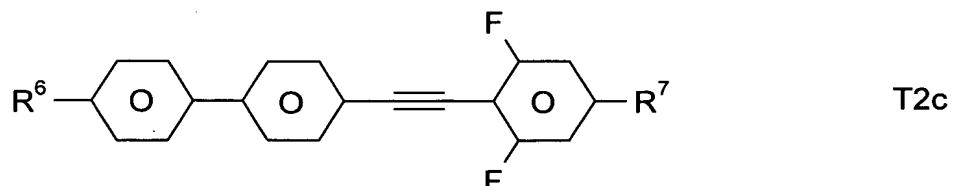
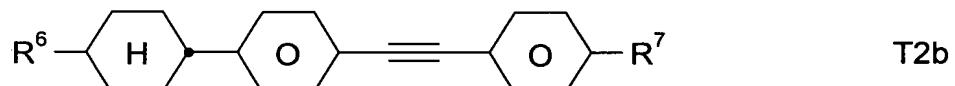
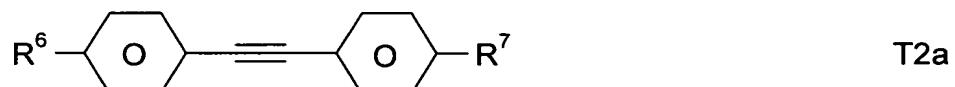
wherein the compound of formula IV is not identical to the compound of formula IV'.

7. (Original) A liquid-crystalline medium according to Claim 1, further comprising a compound of formula VII



in which alkyl and alkyl\* are each, independently of one another, an alkyl group having 1 to 7 carbon atoms.

8. (Original) A liquid-crystalline medium according to Claim 1, further comprising a tolan compound of formula T2a, T2b or T2c



in which

$R^6$  and  $R^7$  are each, independently of one another, an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF<sub>3</sub>, or at least monosubstituted by halogen, in which one or more CH<sub>2</sub> groups are optionally, independently of one another, replaced by -O-, -S-,  , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another.

9. (Original) A liquid-crystalline medium according to Claim 1, wherein the medium comprises 5-30% by weight of one or more compounds of formula A.

10. (Original) A liquid-crystalline medium according to Claim 1, wherein the medium comprises 5-30% by weight of one or more compounds of formula B.

11. (Original) A liquid-crystalline medium according to Claim 1, wherein the medium comprises more than 20% of compounds having a dielectric anisotropy of  $\Delta\epsilon \geq +12$ .

12. (Original) An electro-optical device comprising a liquid-crystalline medium according to Claim 1.

13. (Original) An electro-optical liquid-crystal display containing a liquid-crystalline medium according to Claim 1.

14. (Original) A TN or STN liquid-crystal display comprising

- two outer plates, which, together with a frame, form a cell,
- a nematic liquid-crystal mixture of positive dielectric anisotropy located in the cell,
- electrode layers with alignment layers on the insides of the outer plates,
- a tilt angle between the longitudinal axis of the molecules at the surface of the outer plates and the outer plates of from 0 degree to 30 degrees, and
- a twist angle of the liquid-crystal mixture in the cell from alignment layer to alignment layer with a value of between 22.5° and 600°, and
- a nematic liquid-crystal mixture comprising

a) 15 – 75% by weight of a liquid-crystalline component A

consisting of one or more compounds having a dielectric anisotropy of greater than +1.5;

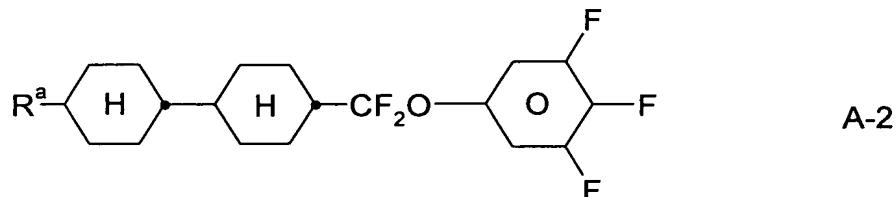
- b) 25 – 85% by weight of a liquid-crystalline component B consisting of one or more compounds having a dielectric anisotropy of between -1.5 and +1.5;
- c) 0 – 20% by weight of a liquid-crystalline component D consisting of one or more compounds having a dielectric anisotropy of below -1.5, and
- d) optionally, an optically active component C in such an amount that the ratio between the layer thickness and the natural pitch of the chiral nematic liquid-crystal mixture is from about 0.2 to 1.3,

wherein component A is a liquid-crystalline medium according to claim 1.

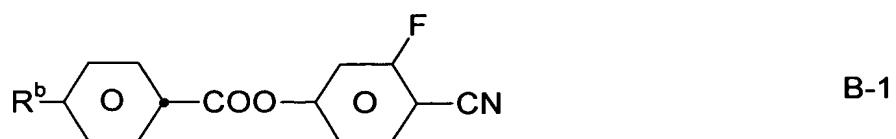
15. (Previously Presented) A liquid-crystalline medium according to claim 2, comprising a compound of formula A-2 or A-6.

16. (Previously Presented) A liquid-crystalline medium according to claim 3, comprising a compound of formula B-1, B-2' or B-4.

17. (Previously Presented) A liquid-crystalline medium according to claim 1, comprising a compound of formula A-2



and a compound of formula B-1

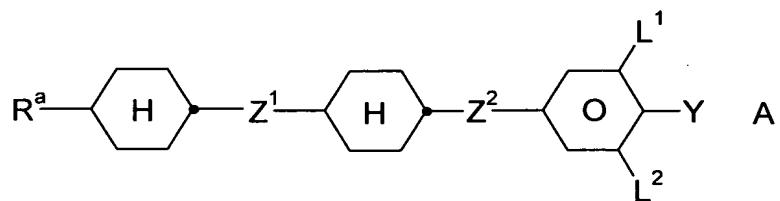


wherein in R<sup>a</sup> and R<sup>b</sup> are as defined in claim 1.

18. (Previously Presented) A liquid-crystalline medium according to claim 1, wherein the medium contains three homologous compounds of formula A.

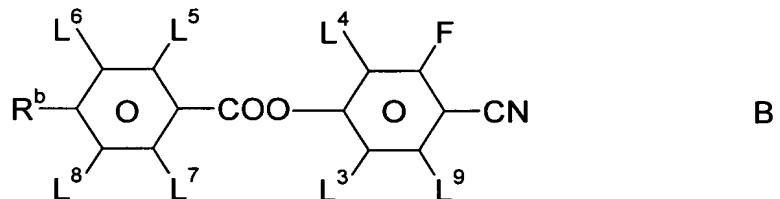
19. (Previously Presented) A liquid-crystalline medium according to Claim 1, wherein R<sup>b</sup> is a C<sub>2-7</sub> alkenyl radical.

20. (Previously Presented) A liquid-crystalline medium comprising one or more compounds of formula A



and

at least one compound of formula B



in which

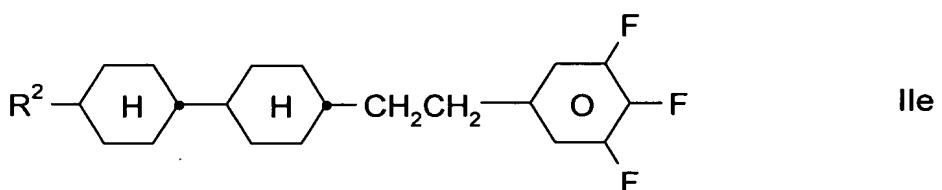
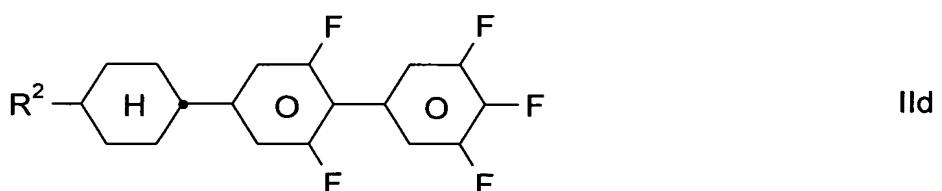
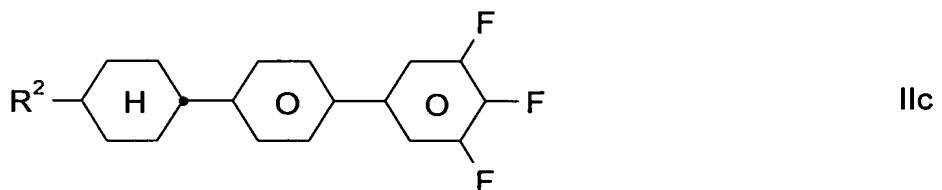
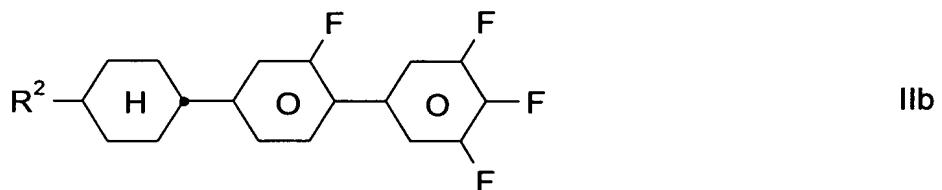
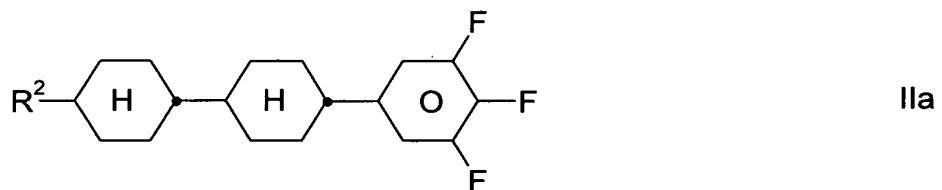
R<sup>a</sup> and R<sup>b</sup> are each, independently of one another, H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF<sub>3</sub>, or at least monosubstituted by halogen, in which one or more CH<sub>2</sub> groups are optionally, independently of one another, replaced by -O-, -S-,  , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

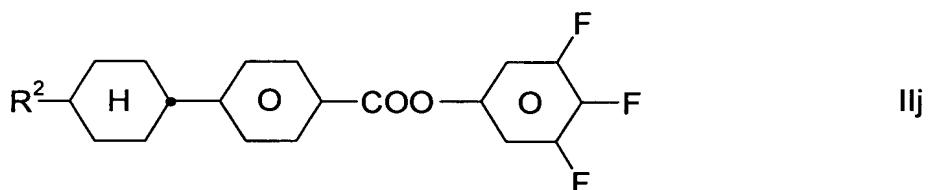
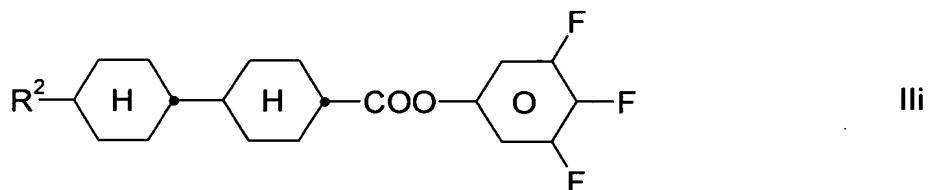
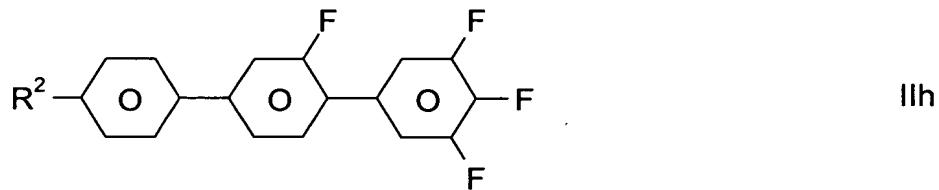
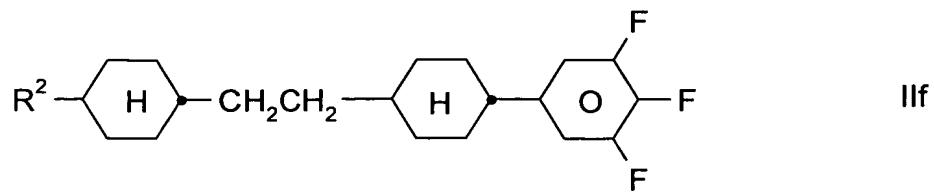
Z<sup>1</sup> and Z<sup>2</sup> are each, independently of one another, -(CH<sub>2</sub>)<sub>4</sub>-, -CF<sub>2</sub>O-, -COO-, -OCF<sub>2</sub>-, -OCH<sub>2</sub>-, -CH<sub>2</sub>O-, -CH<sub>2</sub>-, -(CH<sub>2</sub>)<sub>3</sub>- or a single bond, wherein at least one of Z<sup>1</sup> and Z<sup>2</sup> is -OCF<sub>2</sub>- or -CF<sub>2</sub>O-,

$L^1$  to  $L^9$  are each, independently of one another, H or F, and Y is F, Cl, SF<sub>5</sub>, NCS, OCN, CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms,

and

a compound of formulae IIa to IIj

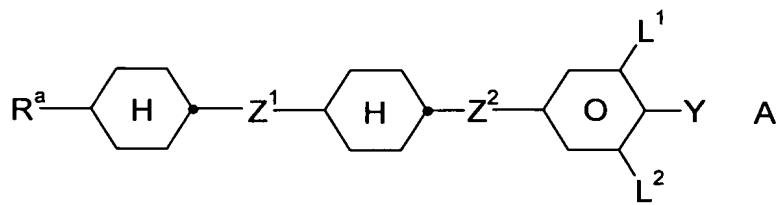




in which

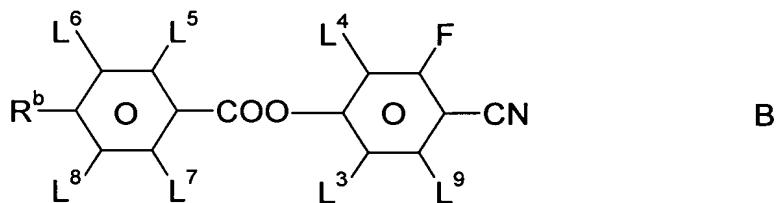
$R^2$  is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, replaced by  $-O-$ ,  $-S-$ , ,  $-CH=CH-$ ,  $-C\equiv C-$ ,  $-CO-$ ,  $-CO-O-$ ,  $-O-CO-$  or  $-O-CO-O-$  in such a way that O atoms are not linked directly to one another.

21. (Previously Presented) A liquid-crystalline medium comprising one or more compounds of formula A



and

at least one compound of formula B



in which

$R^a$  and  $R^b$  are each, independently of one another, H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, replaced by -O-, -S-,  , - $CH=CH$ -, - $C\equiv C$ -, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

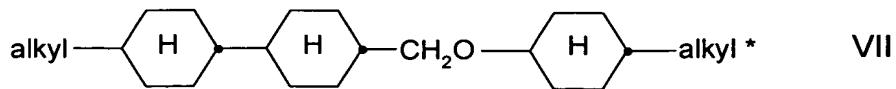
$Z^1$  and  $Z^2$  are each, independently of one another,  $-(CH_2)_4$ -,  $-CF_2O$ -, -COO-,  $-OCF_2$ -,  $-OCH_2$ -,  $-CH_2O$ -,  $-CH_2$ -,  $-(CH_2)_3$ - or a single bond, wherein at least one of  $Z^1$  and  $Z^2$  is  $-OCF_2$ - or  $-CF_2O$ -,

$L^1$  to  $L^9$  are each, independently of one another, H or F, and

$Y$  is F, Cl,  $SF_5$ , NCS, OCN, CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms,

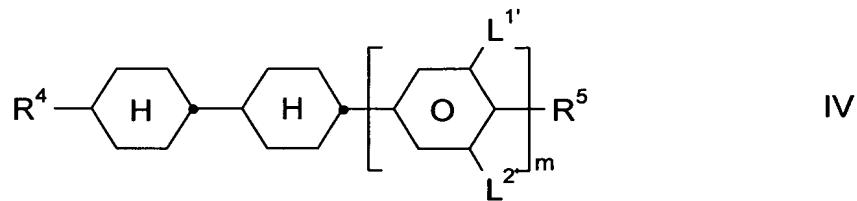
and

a compound of formula VII



in which alkyl and alkyl\* are each, independently of one another, an alkyl group having 1 to 7 carbon atoms.

22. (Previously Presented) A liquid-crystalline medium according to Claim 20, further comprising at least one compound of formula IV



in which

$m$  is 1,

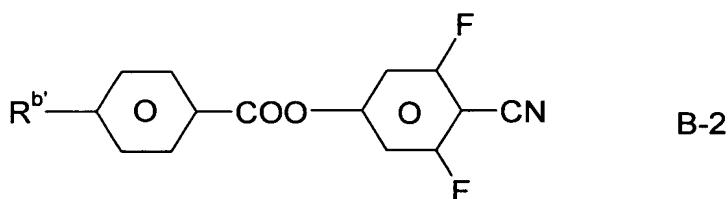
$R^4$  is an alkenyl group having 2 to 7 carbon atoms,

$R^5$  is as defined for  $R^a$  or is F, Cl,  $CF_3$  or  $OCF_3$ ,

$L^1'$  is F and

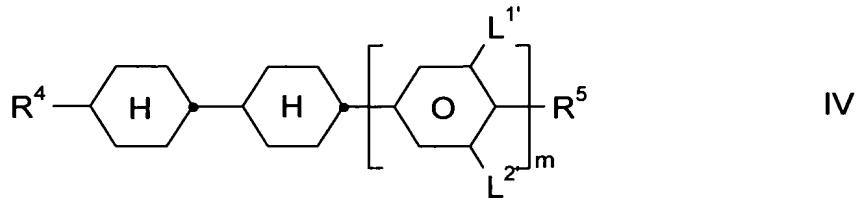
$L^2'$  is H or F,

or that at least one compound of formula B is of the following formula B-2;



in which  $R^{b'}$  is a  $C_{2-12}$  alkenyl radical.

23. (Previously Presented) A liquid-crystalline medium according to Claim 21, further comprising at least one compound of formula IV



in which

$m$  is 1,

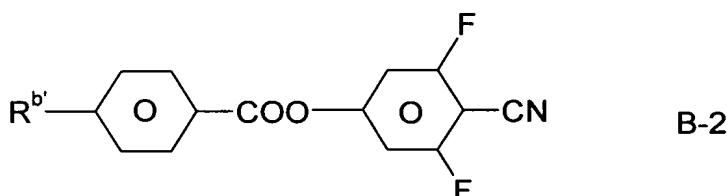
$R^4$  is an alkenyl group having 2 to 7 carbon atoms,

$R^5$  is as defined for  $R^a$  or is F, Cl,  $CF_3$  or  $OCF_3$ ,

$L^1'$  is F and

$L^2'$  is H or F,

or that at least one compound of formula B is of the following formula B-2;

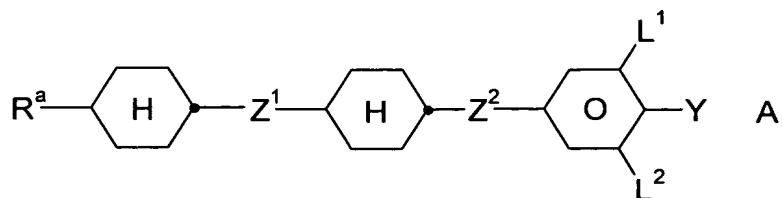


in which  $R^{b'}$  is a  $C_{2-12}$  alkenyl radical.

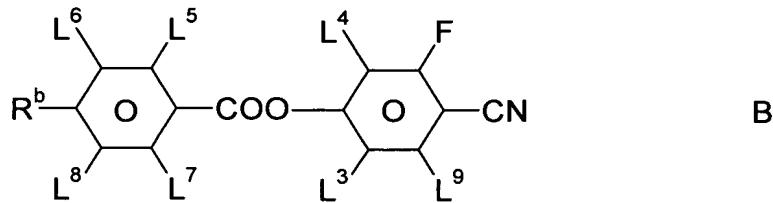
24. (Previously Presented) A liquid-crystalline medium according to Claim 1, which comprises a compound of formula IV.

25. (Currently Amended) A liquid-crystalline medium according to Claim 1 24, wherein in the compound of formula IV,  $R^5$  is F, Cl,  $CF_3$  or  $OCF_3$ .

26. (Previously Presented) A liquid-crystalline medium comprising one or more compounds of formula A and B, and of IV or one of IIa to IIj, wherein  
formula A is



formula B is



in which

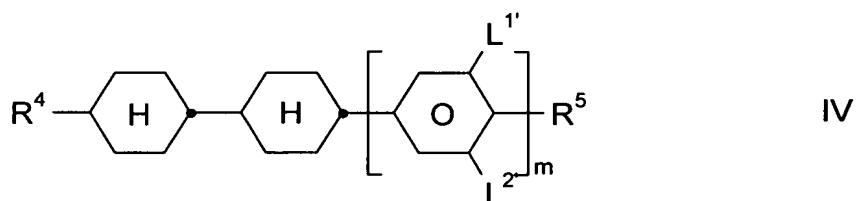
$R^a$  and  $R^b$  are each, independently of one another, H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, replaced by  $-O-$ ,  $-S-$ ,  ,  $-CH=CH-$ ,  $-C\equiv C-$ ,  $-CO-$ ,  $-CO-O-$ ,  $-O-CO-$  or  $-O-CO-O-$  in such a way that O atoms are not linked directly to one another,

$Z^1$  and  $Z^2$  are each, independently of one another,  $-(CH_2)_4-$ ,  $-CF_2O-$ ,  $-COO-$ ,  $-OCF_2-$ ,  $-OCH_2-$ ,  $-CH_2O-$ ,  $-CH_2-$ ,  $-(CH_2)_3-$  or a single bond, wherein at least one of  $Z^1$  and  $Z^2$  is  $-OCF_2-$  or  $-CF_2O-$ ,

$L^1$  to  $L^9$  are each, independently of one another, H or F, and

$Y$  is F, Cl,  $SF_5$ , NCS,  $OCN$ , CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms,

formula IV is



in which

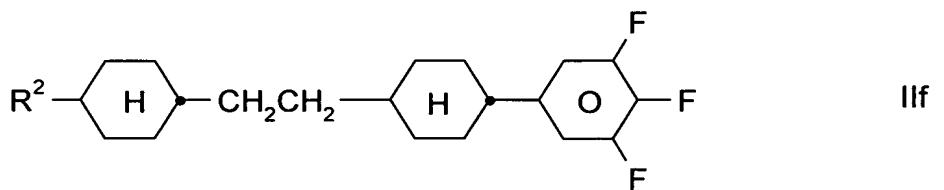
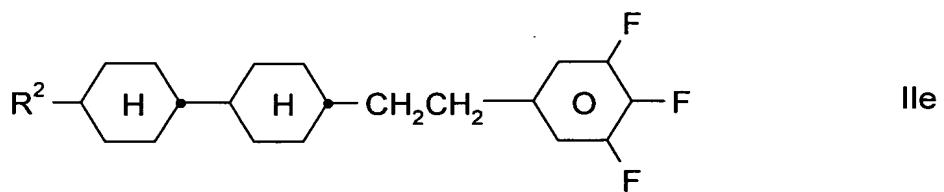
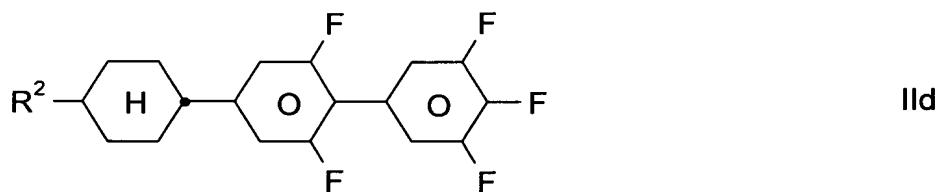
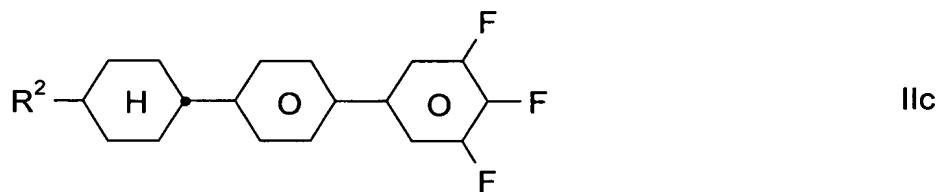
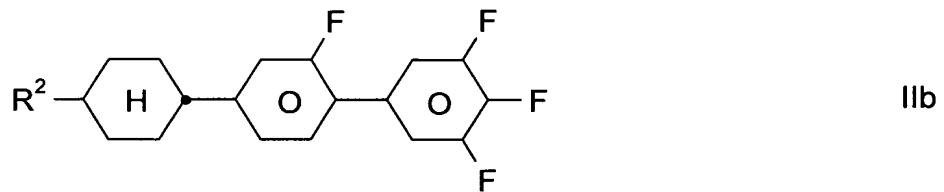
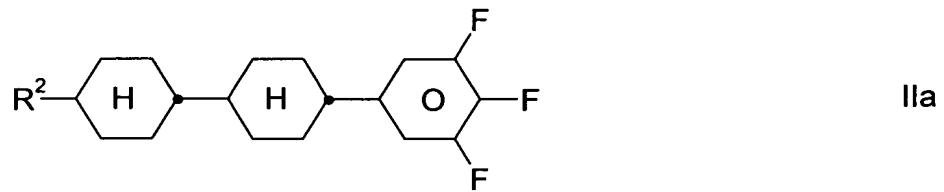
$m$  is 1,

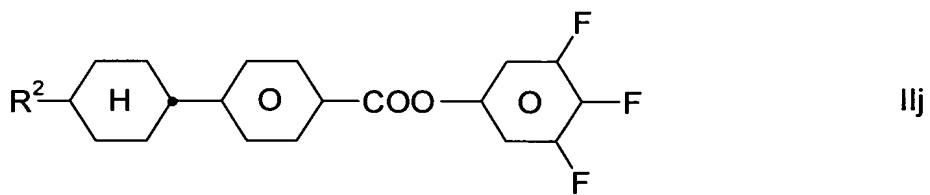
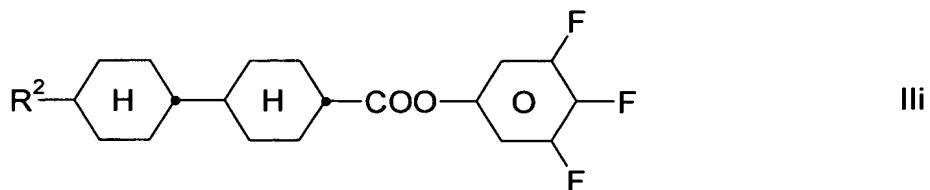
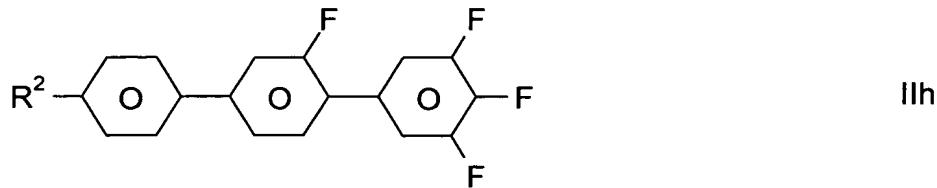
$R^4$  is an alkenyl group having 2 to 7 carbon atoms,

$R^5$  is as defined for  $R^a$  or is F, Cl,  $CF_3$  or  $OCF_3$ ,

$L^1$  is F and  
 $L^2$  is H or F,

and formulae IIa to IIj are





in which

$R^2$  is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or  $CF_3$ , or at least monosubstituted by halogen, in which one or more  $CH_2$  groups are optionally, independently of one another, replaced by  $-O-$ ,  $-S-$ ,  ,  $-CH=CH-$ ,  $-C\equiv C-$ ,  $-CO-$ ,  $-CO-O-$ ,  $-O-CO-$  or  $-O-CO-O-$  in such a way that O atoms are not linked directly to one another.

27. (Previously Presented) A liquid-crystalline medium according to Claim 26, wherein in the compound of formula IV,  $R^5$  is F, Cl,  $CF_3$  or  $OCF_3$ .

28. (Previously Presented) A liquid-crystalline medium according to Claim 6, wherein in the compound of formula IV',  $R^5$  is F, Cl,  $CF_3$  or  $OCF_3$ .

29. (Previously Presented) A liquid-crystalline medium according to Claim 25 which has a threshold voltage of less than 1 V.

30. (Previously Presented) A liquid-crystalline medium according to Claim 1 which has a threshold voltage of less than 1 V.

31. (Previously Presented) A liquid-crystalline medium according to  
Claim 1 which has a threshold voltage of 0.65 to 0.75 V.